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JAPIO CLASS: 22.1 (MACHINERY -- Machine Elements)

ABSTRACT

PURPOSE: To improve the lubrication performance, in a lubrication structure wherein an inner lip portion is brought into sliding contact with an outer periphery of the rotating shaft to thereby perform seal between the case and the rotating shaft, by integrally forming guide ribs, obtained by forming the oil-seal-mounting-hole side end portion into circular-arc configurations, on a bottom wall of the bearing mounting hole.

CONSTITUTION: In a transfer of an automobile, a rotating **shaft** 11 projecting outwardly from a case 20 through an oil **seal** mounting hole 23 is rotatably assembled via a **bearing** within a **bearing** mounting hole 21. Further, an oil **seal** 33 making its sliding contact with an outer periphery of the rotating **shaft** 11 by its tip portion is mounted to the oil **seal** mounting hole 23. And an oil receiver 34 is provided in a space between the oil **seal** 33 and the **bearing** . Guide ribs 27, 28 curvilinearly extending toward the oil **seal** mounting hole 23 in the rotational direction of the rotating **shaft** 23 and obtained by forming an oil- **seal** -mounting-hole side end portion into circular-arc configurations extending along the oil **seal** mounting hole 23 are integrally formed on a bottom wall 21a of the **bearing** mounting hole 21. Thus, the lubrication characteristics of the inner **lip** portion of the oil **seal** 33 is improved.

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